

## TITLE: TRANSMIT AND RECEIVE PROTECTION CIRCUIT

## ABSTRACT OF THE DISCLOSURE

A transmit and receive protection circuit for use in a communication system is disclosed. The protection circuit uses a four-diode gate in which the currents through an input portion and an output portion of the diode gate are individually controlled by resistors located in their respective portions. This arrangement allows the DC currents through each portion to be independently controlled. By using resistors to independently control the DC currents through each portion of the diode gate, better control over the individual DC currents can be achieved, leading to effective AC resistances which are more predictable. This arrangement results in a predictable low loss protection circuit at a minimal expense.

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